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DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Attorney Docket No. 5621-3

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled MICROELECTRONIC PACKAGES INCLUDING THIN FILM DECAL AND DIELECTRIC ADHESIVE LAYER HAVING CONDUCTIVE VIAS THEREIN, AND METHODS OF FABRICATING THE SAME,

the specification of which

☒ is attached hereto

OR

☐ was filed on _____ as United States Application No. or PCT International Application Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate, or of any PCT International application having a filing date before that of the application on which priority is claimed.

			<input type="checkbox"/> Yes <input type="checkbox"/> No
Number	Country	MM/DD/YYYY Filed	Priority Claimed

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I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

60/084,450	05/06/1998
Application Number(s)	Filing Date (MM/DD/YYYY)

Application Number(s)	Filing Date (MM/DD/YYYY)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application (37 C.F.R. § 1.63(d)).

Appln. Serial No.	Filing Date	Status Patented/Pending/Abandoned

Appln. Serial No.	Filing Date	Status Patented/Pending/Abandoned

Appln. Serial No.	Filing Date	Status Patented/Pending/Abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FOIA b7 - D

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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following registered attorney(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

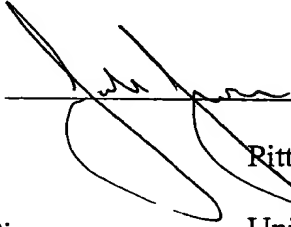
Customer Number 20792

Send correspondence to: Mitchell S. Bigel
Myers Bigel Sibley & Sajovec
Post Office Box 37428
Raleigh, NC 27627

Direct telephone calls to: Mitchell S. Bigel
(919) 854-1400

Facsimile: (919) 854-1401

Full name of sole inventor: Scott L. Jacobs

Inventor's
Signature:  Date: 5/5/99

Residence: Pittsboro, North Carolina

Citizenship: United States of America

Post Office Address: 181 Jordan Ridge
Pittsboro, North Carolina 27312

ASSIGNMENT RECORDATION FORM COVER SHEET

Patent Only

COPY

To the Honorable Commissioner of Patents and Trademarks:

May 4
Attorney Dkt. #

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Scott L. Jacobs

2. Name and address of receiving party(ies):

Virtual Integration, Inc.
181 Jordan Ridge
Pittsboro, North Carolina 27312

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment
☐ Merger
☐ Security Agreement
☐ Change of Name
☐ Other _____

Execution Date: May 4, 1998

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application Serial No. _____ Patent No. _____

If this document is being filed together with a new application, the execution date of the application is:

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Mitchell S. Bigel
Myers Bigel Sibley & Sajovec
P. O. Box 37428
Raleigh NC 27627

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00
☒ Enclosed
☐ Authorized to be charged to deposit account

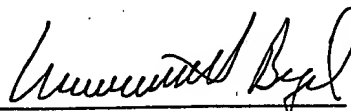
8. Deposit account number: 50-0220

DO NOT USE THIS SPACE

9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Mitchell S. Bigel, #29,614
Name of Person Signing



Signature

May 6, 1998
Date

Total number of pages including cover sheet, attachments and document: 3

FILED IN 41074350

1017 U.S. Pat. & Tm. Office
09/834614
04/12/01

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ASSIGNMENT

THIS ASSIGNMENT, made by me, Scott L. Jacobs, citizen of the United States of
America, residing at 181 Jordan Ridge, Pittsboro, North Carolina 27312;

WITNESSETH: That,

WHEREAS, I am the sole inventor of certain new and useful improvements in A
MICROELECTRONIC PACKAGE INCLUDING A HIGH-DENSITY
INTERCONNECT THIN FILM GRAFT LAYER ON A LOW DENSITY
INTERCONNECT SUBSTRATE for which an application for United States Letters Patent
has been executed by me concurrently herewith, and

WHEREAS, Virtual Integration, Inc., a North Carolina corporation having a principal
place of business at 181 Jordan Ridge, Pittsboro, North Carolina 27312, hereinafter referred
to as assignee, is desirous of acquiring the entire right, title, and interest in and to said
invention as described in said application, and in and to any and all Letters Patent which shall
be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and
valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I have
sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee,
its successors and assigns, the entire right, title, and interest in and to the said invention and
application, and in and to any and all continuations, continuations-in-part, or divisions
thereof, and in and to any and all Letters Patent of the United States of America and all
foreign countries or reissues thereof which may be granted therefor or thereon, for the full
end of the term for which said Letters Patent may be granted, together with the right to claim
the priority of said application in all foreign countries in accordance with the International
Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as
fully and entirely as the same would have been held and enjoyed by me if this assignment and
sale had not been made.

I hereby request that said Letters Patent be issued in accordance with this assignment.

I further covenant and agree that, at the time of the execution and delivery of these
presents, I possess full title to the invention and application above-mentioned, and that I have
the unencumbered right and authority to make this assignment.

I further covenant and agree to bind my heirs, legal representatives, and assigns
promptly to communicate to said assignee or its representatives any facts known to me

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relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 4 day of May, 1998.

Scott L. Jacobs (SEAL)

STATE OF NORTH CAROLINA)
) ss:
COUNTY OF Wake)

Before me personally appeared Scott L. Jacobs, to me known to be the person described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same for the purpose therein stated, this 4 day of May, 1998.

Lianne Arnold
Notary Public

SEAL

My Commission Expires: 5-17-98

5621-3PR Assignment

FILED TO FILED

This document copy has been previously filed in the USPTO and is intended to be submitted with the attached divisional application:

U.S. Application Serial No.: Not Assigned

Docket No.: 0262-005

Express Mail No. EL801240843US

no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/96(6-98)
Approved for use through 09/30/2000. OMB 0657-0031
Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Virtual Integration, Inc.

Application No./Patent No.: 09 306 463 Filed/Issue Date: 05/05/99

Entitled: Microelectronic Packages including Thin Film Decal and ...

Virtual Integration, Inc., a North Carolina Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or

2. ☐ an assignee of an undivided part interest

In the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE:] A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

2/17/00
Date

[Signature]
Signature
Scott Jacobs
Typed or printed name

President
Title

This document copy has been previously filed in the USPTO and is intended to be submitted with the attached divisional application.
U.S. Application Serial No. [REDACTED] Assigned
Docket No.: 0262-005
Express Mail No. EL801240843US

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Please type a plus sign (+) inside this box → ☐

PTO/SB/83 (11-96)

Approved for use through 6/30/99. OMB 0651-0035

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT

Application Number	09/306,463
Filing Date	May 5, 1999
First Named Inventor	Scott L. Jacobs
Group Art Unit	2815
Examiner Name	J. Clark
Attorney Docket Number	5621-3

To: Assistant Commissioner for Patents
Washington, DC 20231

I hereby apply to withdraw as attorney or agent for the above identified application.

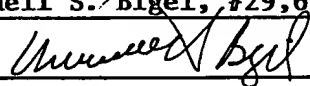
The reasons for this request are:

File transferred to new counsel at request of client.

- ☐ The correspondence address is NOT affected by this withdrawal.
- ☒ Change the correspondence address and direct all future correspondence to:

CORRESPONDENCE ADDRESS					
<input type="checkbox"/> Customer Number	<input type="text"/> → <div>Place Customer Number Bar Code Label here</div>				
OR					
<input checked="" type="checkbox"/> Firm or Individual Name	Kevin E. Flynn				
Address	Daniels & Daniels, P.A.				
Address	P.O. Drawer 12218				
City	Research Triangle Park	State	NC	ZIP	27709-2218
Country	US				
Telephone	919/544-5444	Fax			

This request is enclosed in triplicate.

Name	Mitchell S. Bigel, #29,614
Signature	
Date	February 25, 2000

*NOTE: Withdrawal is effective when approved rather than when received.
Unless there are at least 30 days between approval of withdrawal and the expiration date of a time period for response or possible extension period, the request to withdraw is normally disapproved.*

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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PTO/SB/81 (11-96)

Approved for use through 6/30/99. OMB 0651-0035

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**POWER OF ATTORNEY OR
AUTHORIZATION OF AGENT,
NOT ACCOMPANYING
APPLICATION**

Application Number	09 306 463
Filing Date	05/05/99
First Named Inventor	BIGEL (SIC)
Group Art Unit	2815
Examiner Name	Clark, J.
Attorney Docket Number	5621-3

I hereby appoint:

☐ Practitioners at Customer Number

OR

☒ Practitioner(s) named below:

Place Customer
Number Bar Code
Label here

Name	Registration Number
KEVIN E. FLYNN	37,325
Caroline Horton Rockefeller	36,552

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

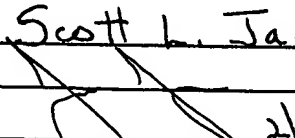
<input checked="" type="checkbox"/> Firm or Individual Name	KEVIN E FLYNN				
Address	DANIELS & DANIELS, P.A.				
Address	P.O. Drawer 12218				
City	Research Triangle Park	State	NC	ZIP	27709
Country	USA				
Telephone	919 544 5444	Fax	919. 544. 5920		

I am the:

☐ Applicant.

☒ Assignee of record of the entire interest
Certificate under 37 CFR 3.73(b) is enclosed

SIGNATURE of Applicant or Assignee of Record

Name	Scott L. Jacobs
Signature	
Date	2/17/00

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

This document copy has been previously filed in the USPTO and is intended to be submitted with the attached divisional application:

U.S. Application Serial No.: Not As

Docket No.: 0262-005

Express Mail No. EL801240843US



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UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Office

Address: COMMISSIONER OF PATENT AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
09/306,463	05/05/1999	MITCHELL S. BIGEL	5621-3

KEVIN E. FLYNN
DANIELS & DANIELS, P.A.
P. O. DRAWER 12218
RESEARCH TRIANGLE PARK, NC 27709

Date Mailed: 05/18/2000

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/18/2000.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

FILED TO THE ESO

Customer Service Center

Initial Patent Examination Division (703) 308-1002

6092
ATTORNEY/APPLICANT COPY